

ABSTRACT

5 A method for production of an α -glucan from a β -1,4-glucan is provided, comprising: reacting a solution containing β -1,4-glucan, a primer, a source of phosphoric acid, β -1,4-glucan phosphorylase, and α -1,4-glucan phosphorylase to produce an α -glucan. In this method, said β -1,4-glucan may be cellobiose, and said β -1,4-glucan phosphorylase may be cellobiose phosphorylase.